

ATKINS *Machine Knives*



ATKINS

ATKINS SILVER STEEL AAA MACHINE KNIVES . . .

Atkins SILVER STEEL AAA Machine Knives are known and used by thousands of various types of manufacturers all over the world. This fine acceptance has been brought about by the use of the very best of steel, and the most modern methods of manufacturing. Metallurgical and manufacturing research never ceases, consequently there is almost a constant product improvement in every knife we make.

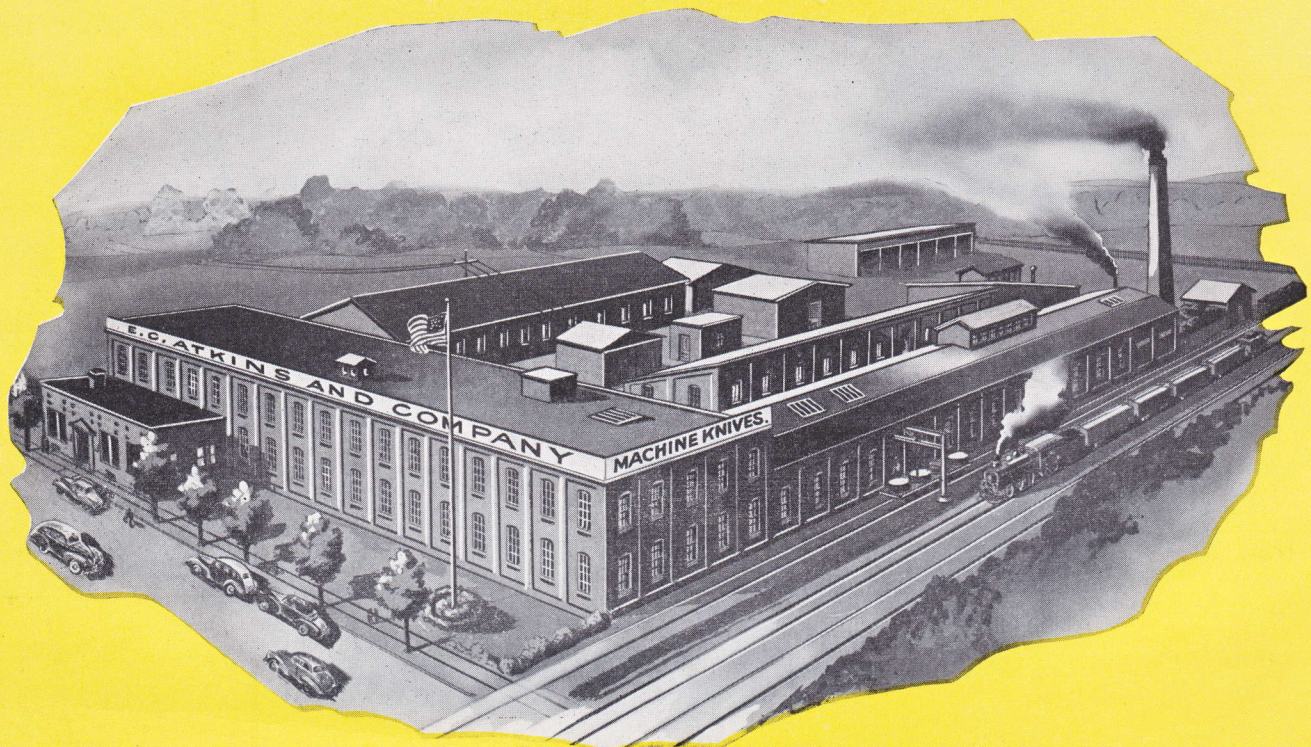
Heat treating, quenching, grinding are extremely important. The heat treating is done in modern electrically controlled furnaces and each knife of a given kind is of the same temper. Therefore uniform, satisfactory service is assured. Quenching is uniform and is likewise automatically controlled by the newest electrical precision instruments.

Grinding is vital and this operation gets plenty of attention. Huge precision machines are used and exactly the right wheel is used on each knife.

Where laid knives are used the very best steel forms the cutting edge and this is welded to a tough steel back. The cutting edge and the back have the right consistency in its respective properties for the toughest operations.

Your orders for Atkins Knives receive the attention of many experts and it will pay you to use Atkins.

There are many kinds of machine knives, many listed and shown in the following pages. If the kind of knife you use is not covered here, we invite your inquiry.



VARIOUS KINDS OF KNIVES

The pages immediately following will show you a variety of knives which we manufacture, such as:

Barkmill	Metal shear
Barrel	Molding
Bader	
Bevel edge shaper	Novelty siding
Boiler shear	
Chair Bottom	Paper cutter
Chamfer (tight and slack barrel)	Paper Slitter
Cheese	Planer
Chipper	Plane iron
Cope	Pressure bar
Corrugated chipper	Pulp shredder
Double end chain	
Excelsior	Rabbeting
Extract	Rag
Fur	Roll Shaper
Gaining	Sarven
Groover	Scraper
Heel	Segment carbon cutter
Hog	Shaper steel
Hook	Shear blades
Hub	Shingle
Jointer	Skiving
Kraut	Special shears
Leather splitter	Spoke
Lithograph stone planer	Stave
Matcher	Stave jointer
Meat Chopper	Trimmer
	Vegetable
	Veneer
	Washboard
	Wood clipper

We specialize in high speed steel knives both solid and laid. We make only the best. If you need knives of special shapes and sizes, let us quote upon your requirements.

HOW TO ORDER MACHINE KNIVES

Place the knife face down, bevel up, on a strong piece of paper. Mark around the knife to show its

Length
Width
Bevel
How Many to Set
If Slotted Head give number and size of slots.

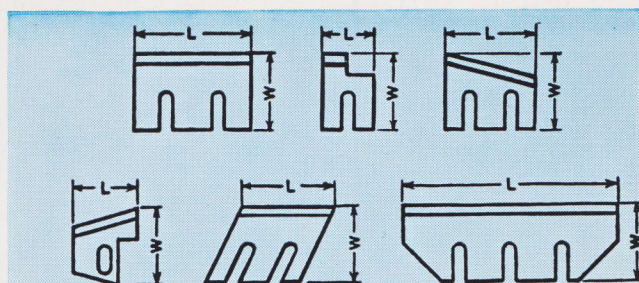
Size and position of slots
Thickness
Quantity (Total)

If for Solid Head you must send an accurate pattern. State whether the knives should be back beveled or left square.

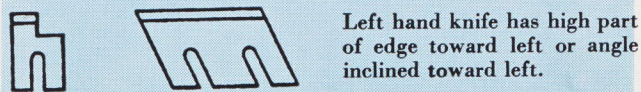
Give Name and Number of Machine (especially when ordering paper knives).

Length of a knife is measured with reference to the cutting edge; however, this is not always the actual measurement of the cutting edge (see illustration).

The width of a knife is the greatest distance from cutting edge to back edge.



Knives thicker in one part than in another are measured at the thickest part.



Right hand knife has high part of edge toward right or angle inclined toward right.



All templates or patterns should be made with the beveled side up and the cutting edge away, with the position of the bevel clearly marked.

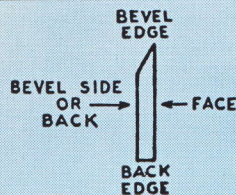


Specifications should be written in this sequence:

Length	Width	Thickness
24"	4"	3/8"

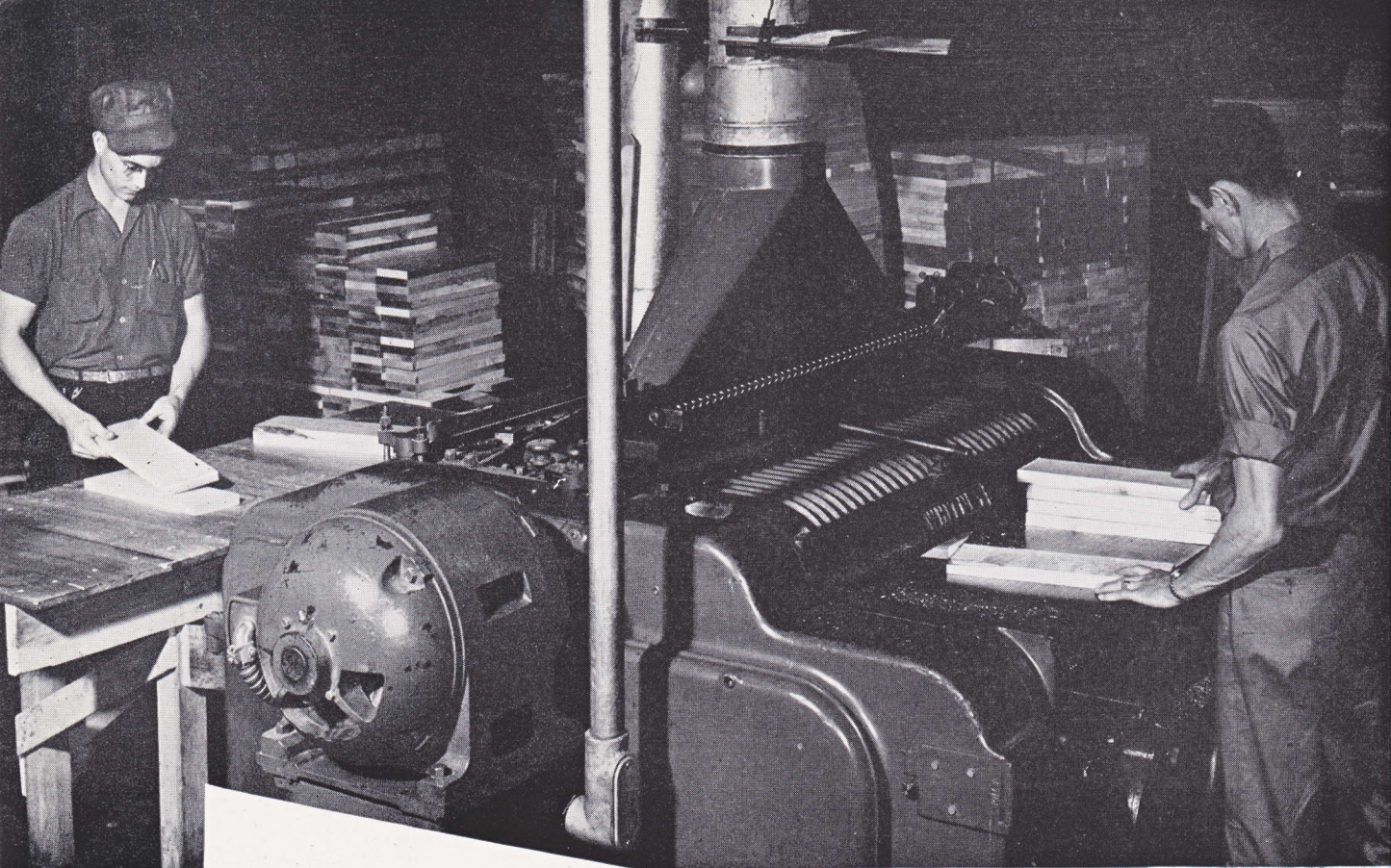
Rule applies even if length is less than width.

Length	Width	Thickness
2"	4"	3/8"



We have special template paper for use in ordering knives and will gladly send a free supply upon request.

In ordering special knives, always send a drawing or a blue print with complete information.



ATKINS

SILVER STEEL PLANER KNIVES

KEEP CUTTING LONGER

"Time Out" on machines is "Time Out" on profit.

Along with precision cutting—and no matter how demanding your standards—Atkins SILVER STEEL Planer Knives will do a first quality job. They assure you of a "plus value in cost savings. They cut faster—they keep cutting far longer. They spend less time in the grinding room—more time on your machine. When resharpening Atkins Planer Knives there is far less cutting edge removed which means more service per knife.

Every Atkins Planer Knife is manufactured with the utmost precision in each step beginning with the very best steel obtainable for the purpose. Heat treating is done in pyrometer controlled furnaces. Therefore each set of knives has identical hardness throughout. They are ground, polished and sharpened on accurate machines.

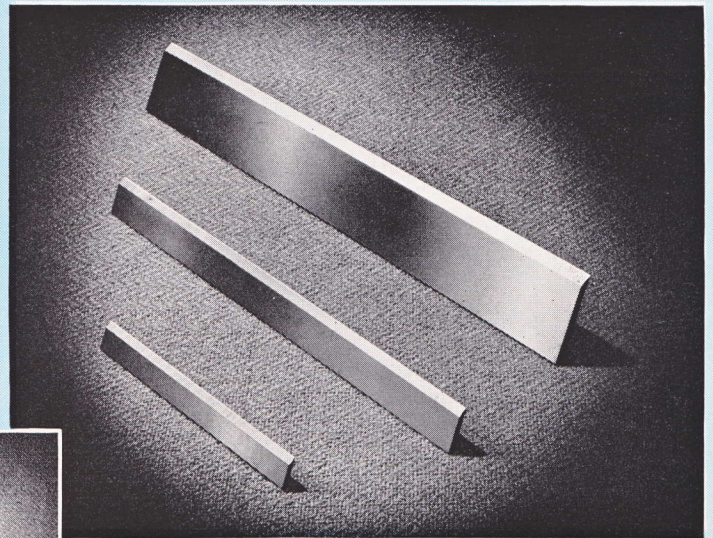
Each set of Atkins Planer Knives, regardless of whether they are for round head or square head machines, are perfectly balanced. Uniform length, width, thickness and bevel.

All the standard sizes of either type knife can be obtained promptly from stock.

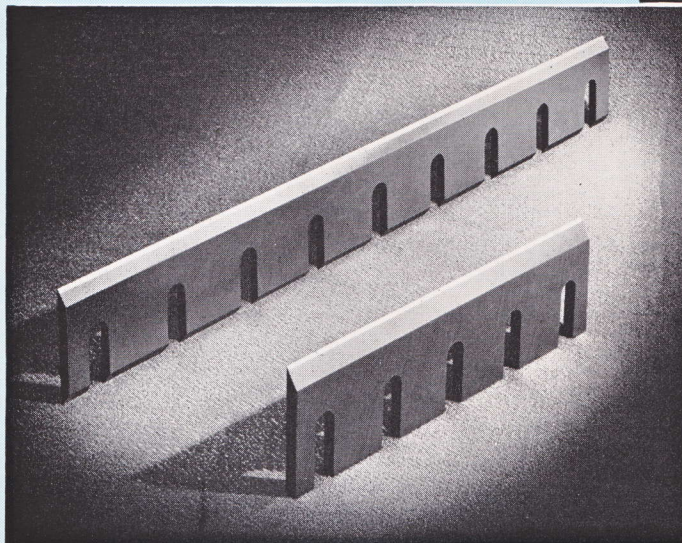
Order your new Atkins Planer Knives now from your Atkins distributor or from the nearest Atkins office.



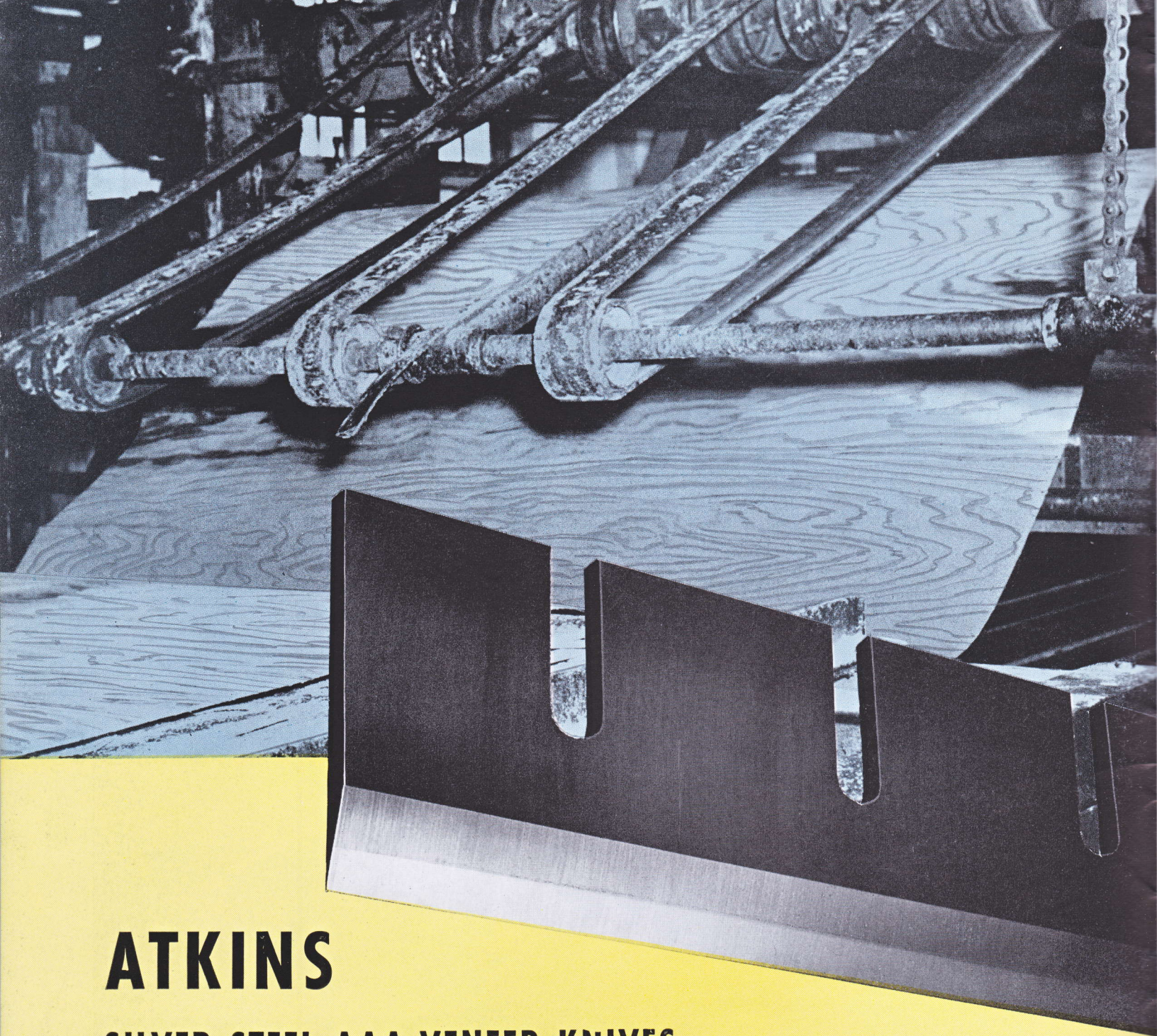
↑
Glued hardwood stock being smoothly planed on both sides at one operation by Atkins Silver Steel Planer Knives.



↑
Thin Atkins High Speed Steel Planer Knives are daily gaining in preference because of their long operation between sharpenings.



←
Slotted Planer Knives made by Atkins are perfectly parallel, accurately beveled, ground correctly and balanced. Try them on your next order.



ATKINS

SILVER STEEL AAA VENEER KNIVES

VENEER KNIVES are an important item and the care given their manufacturing is the same as any other fine Atkins knife. Basket, crate and plywood veneer is produced on lathes. This machine handles the steamed log in a continuous rotating motion against a stationary knife.

They are furnished either slotted or unslotted. Give full specifications including template.

PRESSURE BARS are either plated, heat treated and ground; or of solid steel unground, unheat treated. Heat treated pressure bars are preferred.

VENEER CLIPPER—Atkins Veneer Clippers operate in a vertical action to cut sheets into desired lengths and hundreds are in daily use. They stand up to the most difficult conditions for many cuts between sharpenings.

ATKINS SILVER STEEL AAA VENEER SLICER KNIVES

This knife operates in a different manner than the lathe (rotary) knife in that the log or fletch is clamped to a holder and is passed by the knife with a reciprocating, vertical movement removing a slice of veneer of the desired thickness at each pass.

The veneer slicer method is much preferred in the furniture, cabinet and other fine wood industries where the beautiful grains of walnut,

mahogany, etc., are worked up to the most attractive advantage.

Very carefully made in every respect, material, heat treating, workmanship, etc. Slotted for standard machines. Some have loop slots, some open slots. (The unslotted knife shown above the machine illustration is used with clamps.) Give full specifications and accurate template.



ATKINS HOG KNIVES

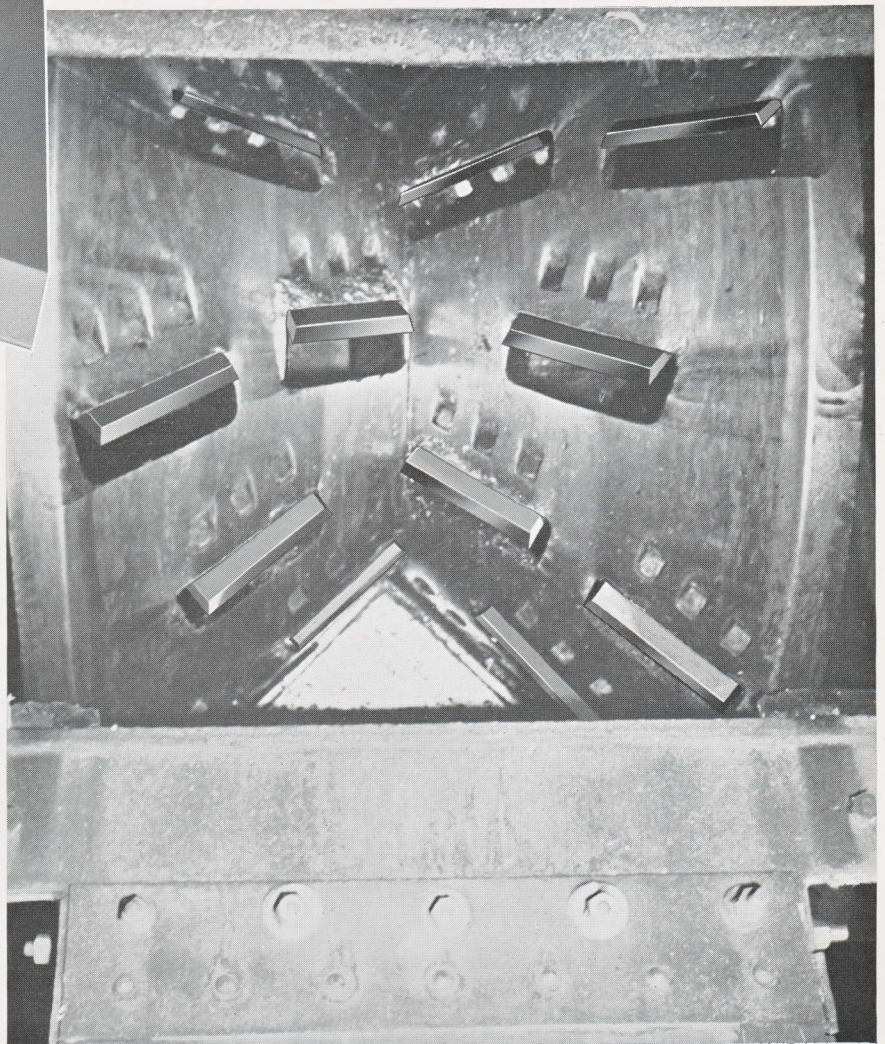


Atkins Hog Knives are the toughest knives of their kind on the market; extra forging and uniform heat treating makes them extremely shock resisting. The following types of industries use Atkins Hog Knives in large quantities:

- Woodworking plants for boiler fuel
- Packing plants that produce fertilizer
- Extract plants that chip oak for tanning purposes
- Paper mills in reprocessing scrap paper

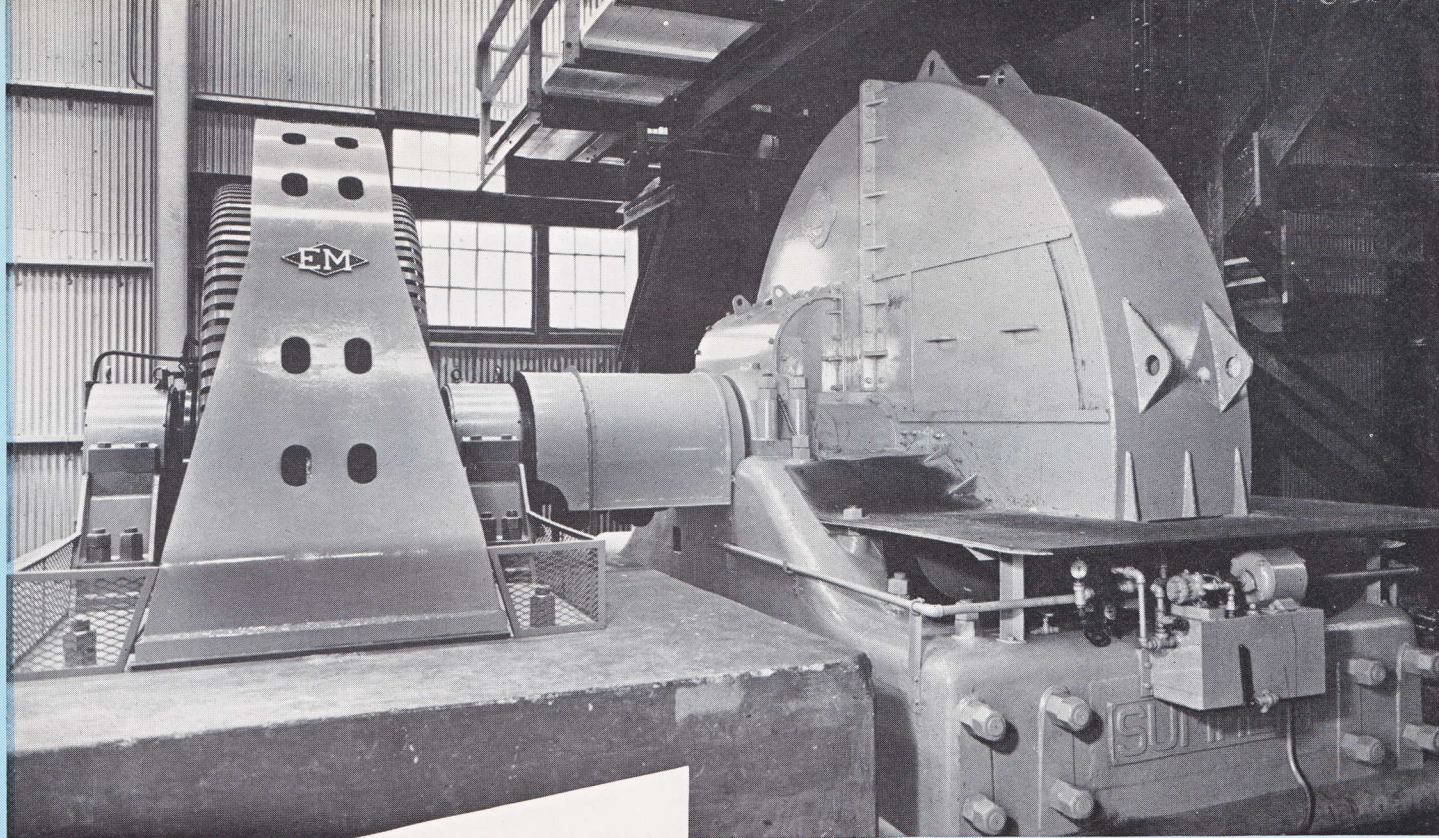
Atkins Hog Knives are made from solid carbon or solid high carbon-high chrome.

Atkins make hog knives for all standard machines. In ordering give machine make, number and all dimensions.



Top grade steel only is used in the manufacture of hog knives, plus scientific heat treating, polishing and expert grinding. Because these knives run in sets, great care is maintained to have each knife the same size and weight for perfect balance.

Hog knives receive considerable abuse and not infrequently come in contact with many foreign substances such as metal. Therefore the fact that Atkins Hog Knives do stand up for long runs means lower knife cost.



ATKINS CHIPPER KNIVES

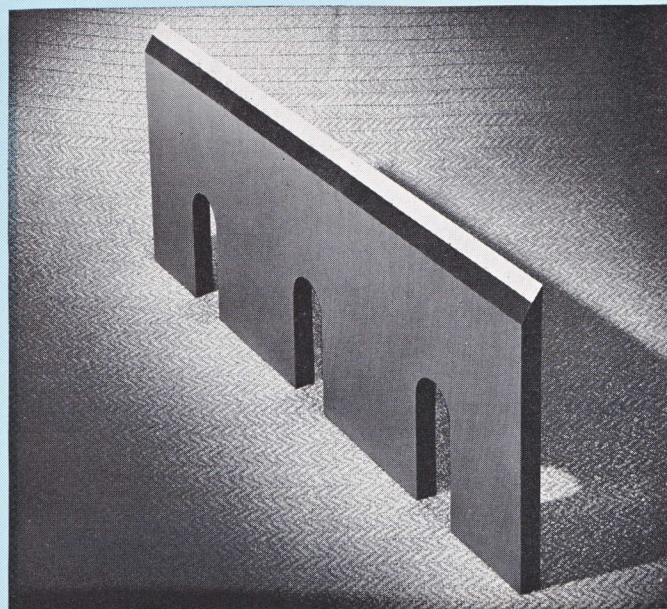
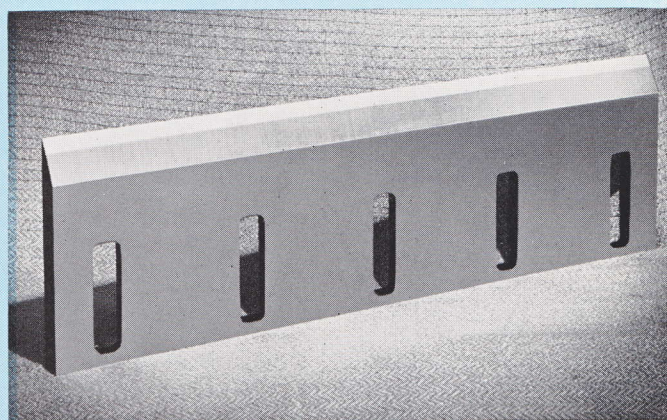
Pulp and paper mills using Atkins Chipper Knives are getting the longest run between sharpenings. They are made of the finest steel, uniformly hardened and tempered and accurately finish ground to size.

They grind faster and easier, hold edge longer, and have minimum chipping.

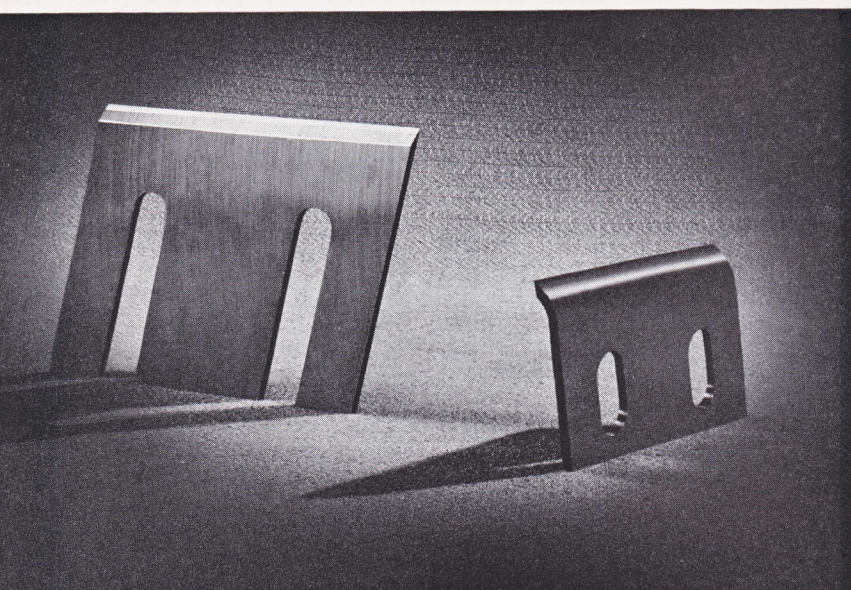
Perfectly balanced in sets.

Made in either solid or laid carbon steel, laid special alloy steel, solid high carbon high chrome steel.

Obtainable for any machine with any type of fastening desired.

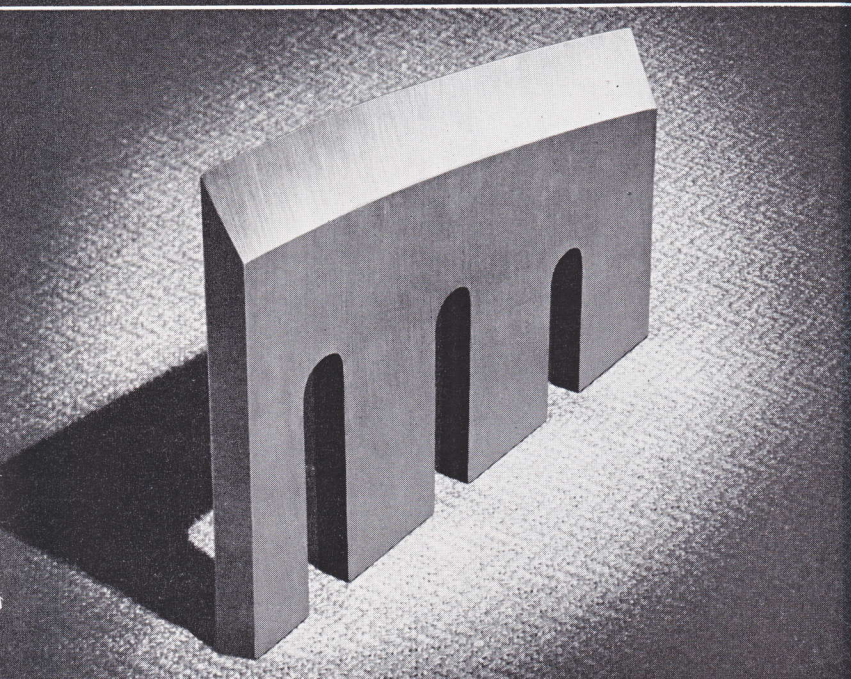


ATKINS SILVER STEEL AAA MACHINE KNIVES...



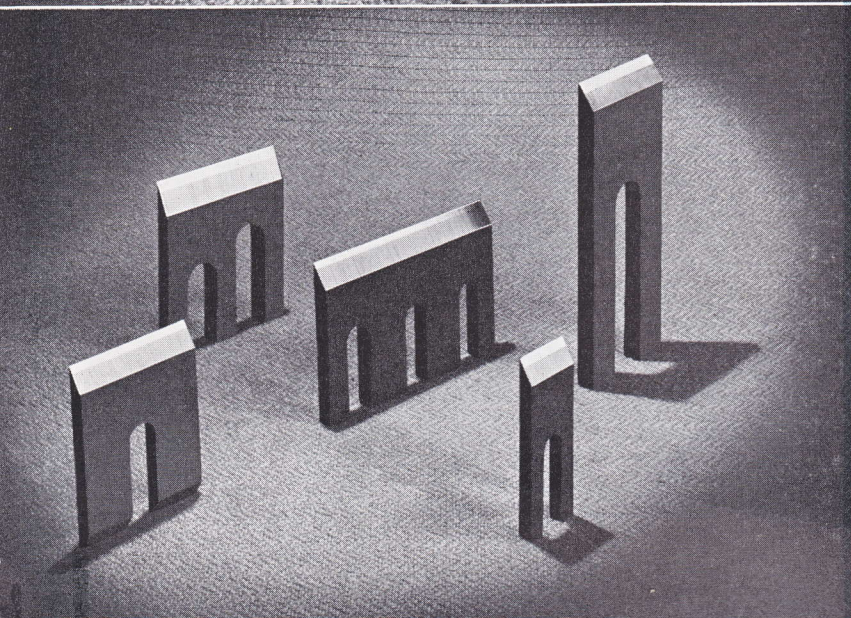
COOPERAGE KNIVES

Shown left are Jointer Knife and Jointer Knife Cap used in the cooperage industry. Besides these we manufacture all the other types used in producing tight and slack barrels, such as planers, both inside and outside, chamfers, etc. Made with same care and precision as any Atkins knife.



ADZING KNIVES

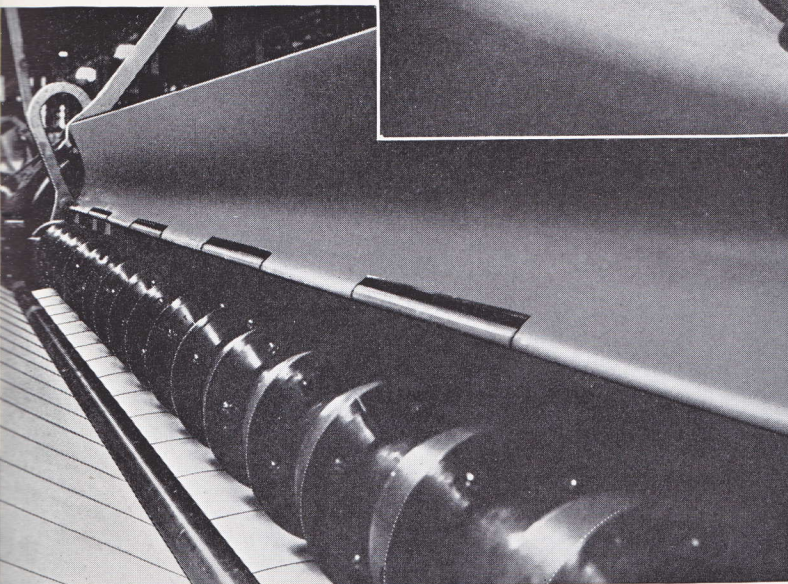
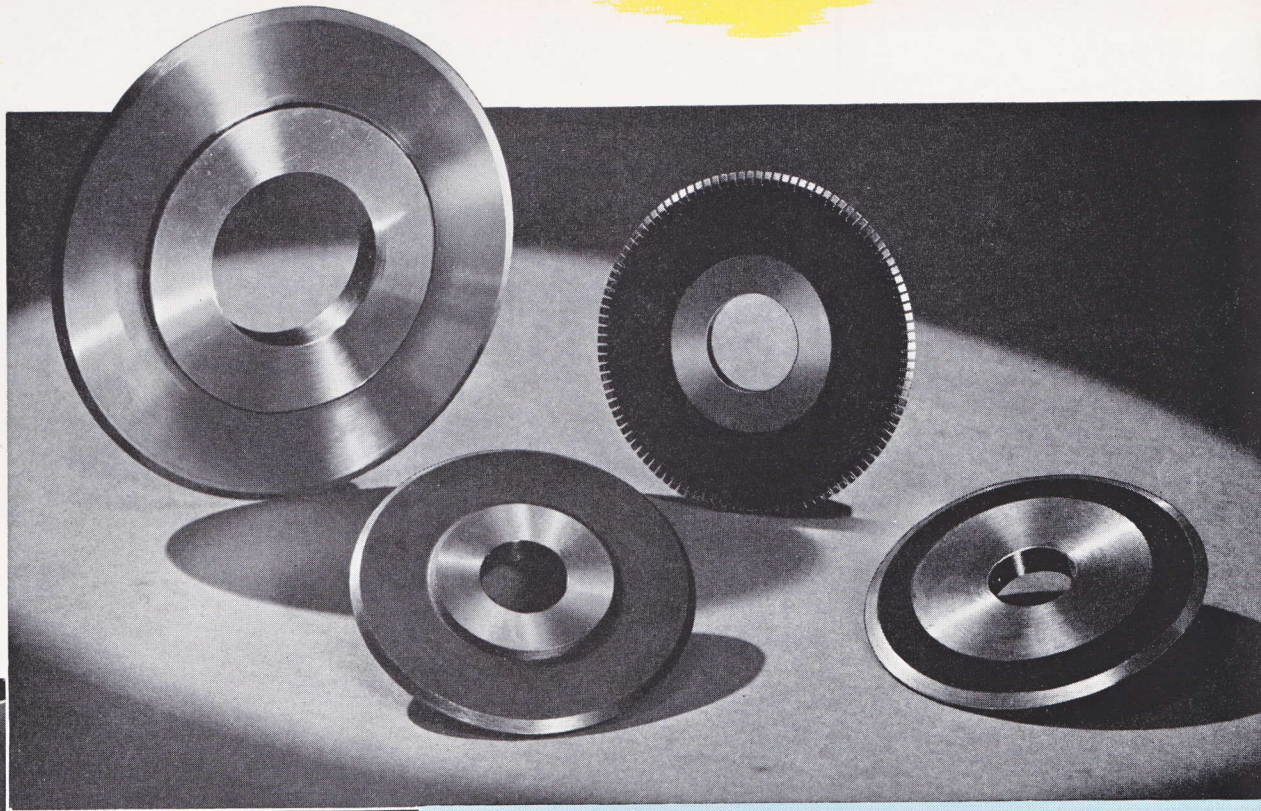
These knives are in wide use and are the very finest made of this type. Pole Peeler Knives, in many respects, are similar. Send us your specifications and let us give you a quotation on your requirements.



DIFFERENT SHAPES OF HOG AND PLANER KNIVES

We receive daily, orders for various shapes and styles of many kinds of knives. The two knives in the rear of the illustration are hog knives made of solid carbon steel. The three toward the front are shapes of planer knives. Do not hesitate to contact your nearest distributor about any kind of knife desired. We will work with both of you to your entire satisfaction.

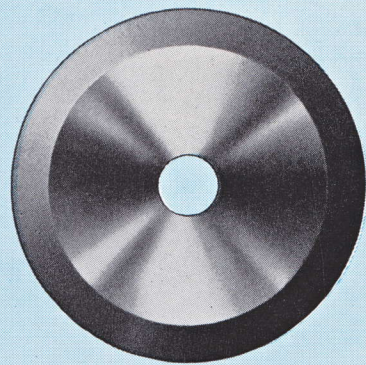
ATKINS SLITTER KNIVES



Known throughout the paper industries for long, continuous runs for either slitting, scoring or perforating. Atkins Circular Slitter Knives are made from high grade special tool steel or high speed steel carefully tempered. They are ground on precision machinery to assure extreme accuracy. They are available in a complete range of standard sizes and types as well as special sizes to specifications.

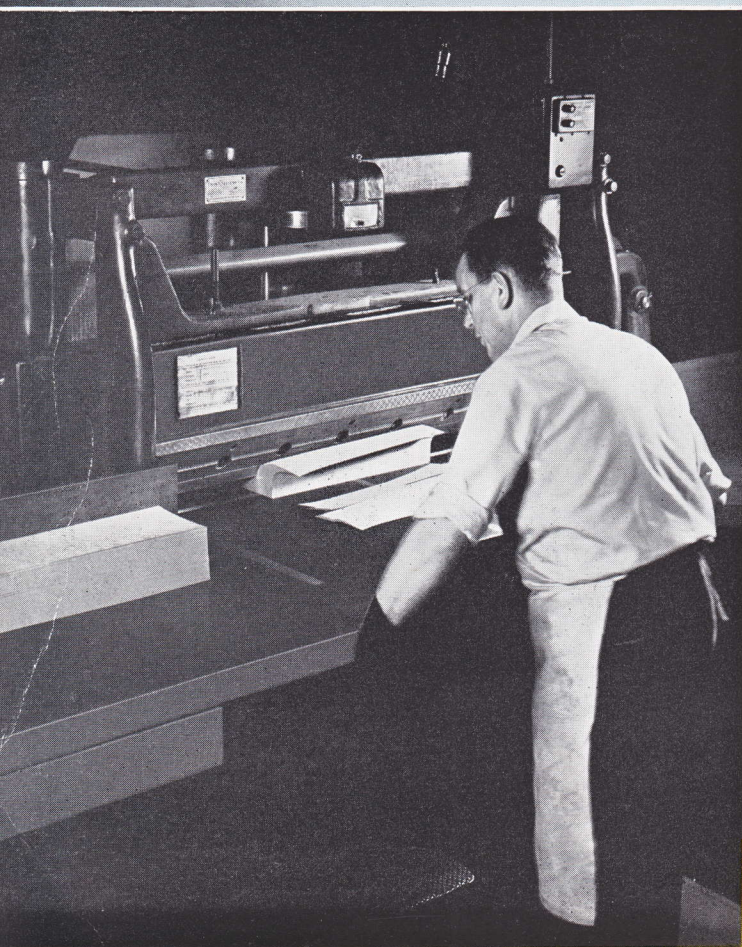
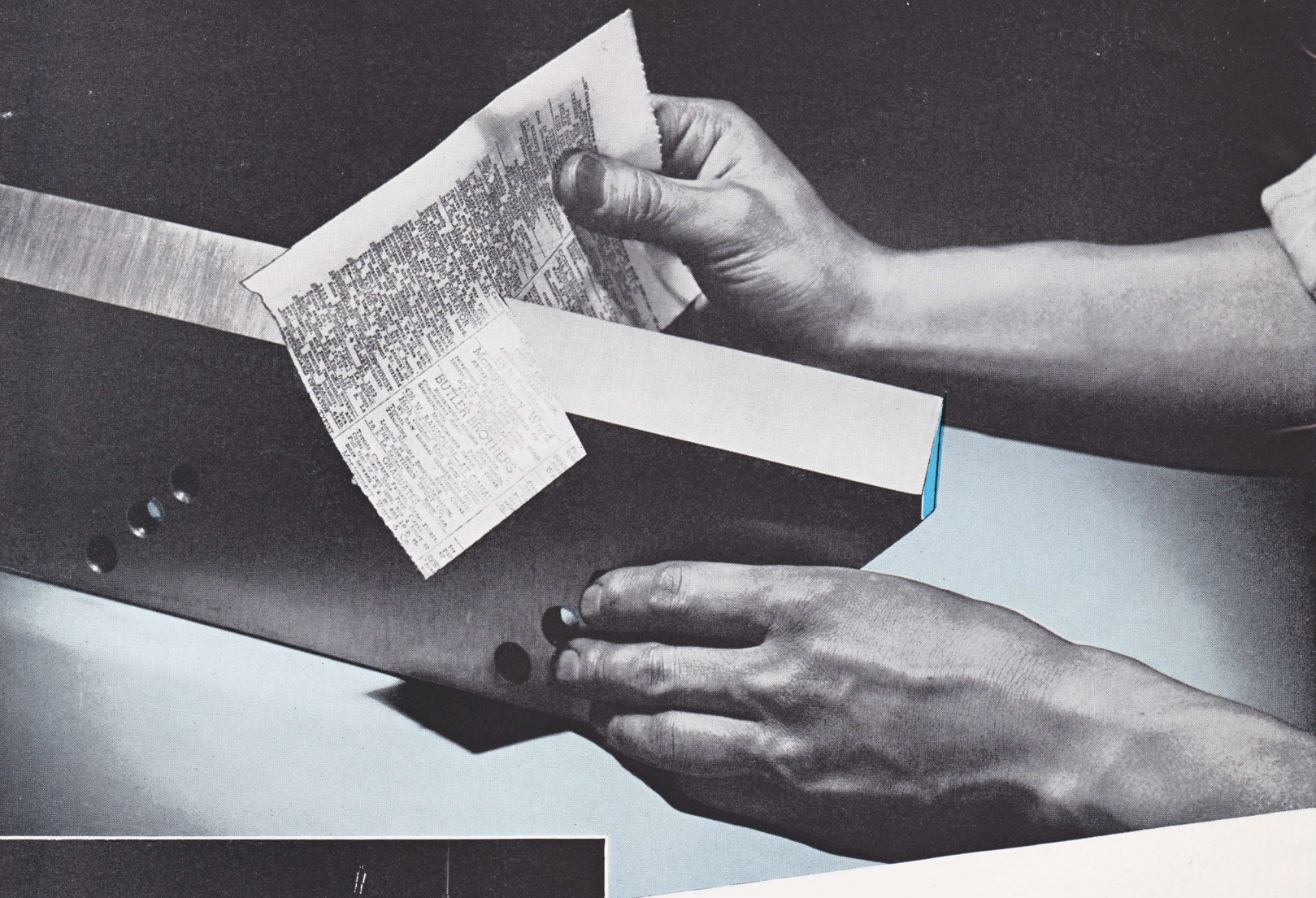
Give quantity, diameter; center hole, thickness; bevel and send sample or sketch.

ATKINS CIRCULAR KNIVES



SILVER STEEL and highly recommended for cutting cork, cloth, leather, paper, cigarettes, candy, fish, vegetables and similar materials. Made of carbon, high speed or stainless steels in sizes ranging up to 36 inches diameter.

When ordering give quantity, steel, outside diameter, diameter of center hole, width of bevel, whether single or double bevel.



ATKINS

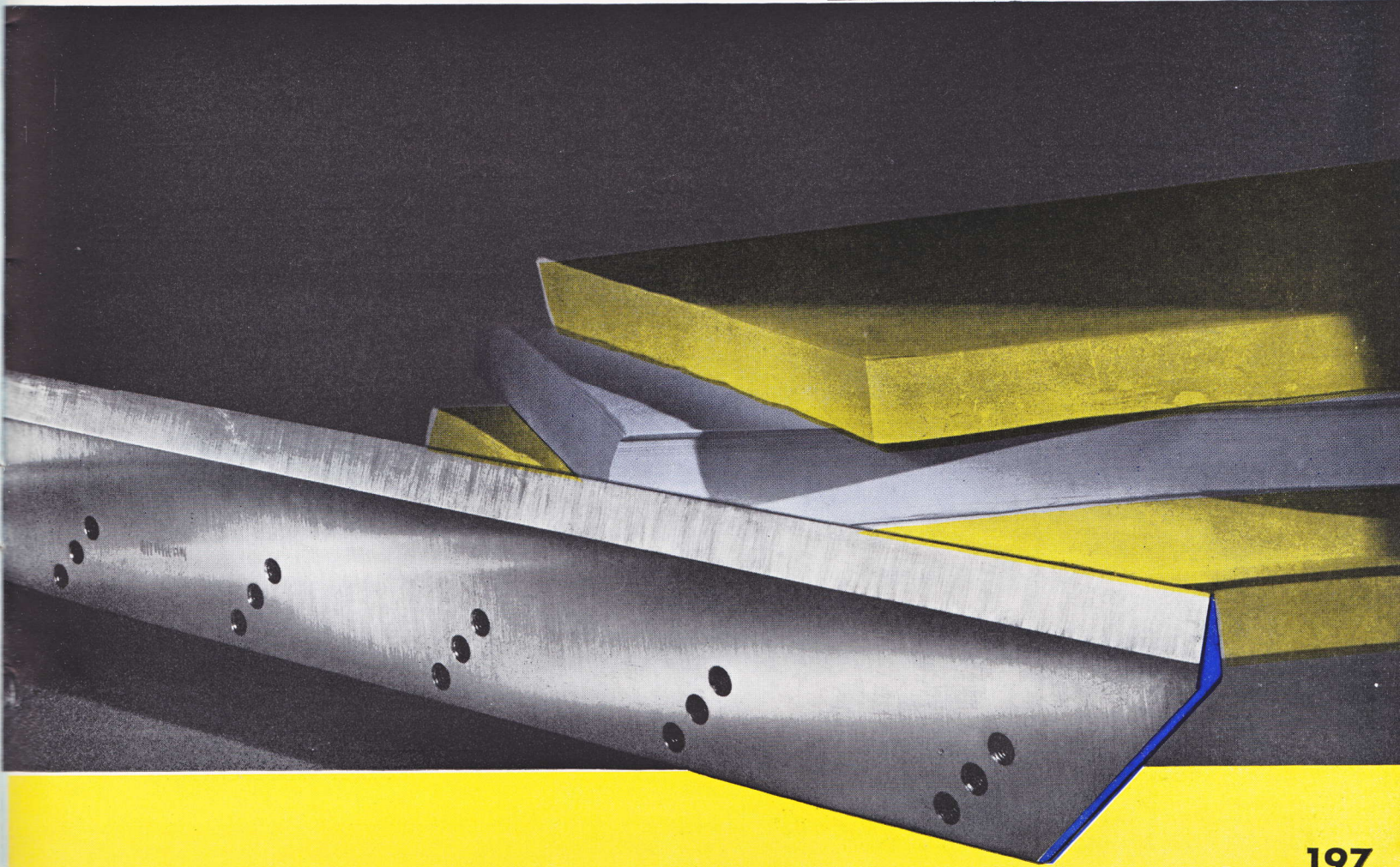
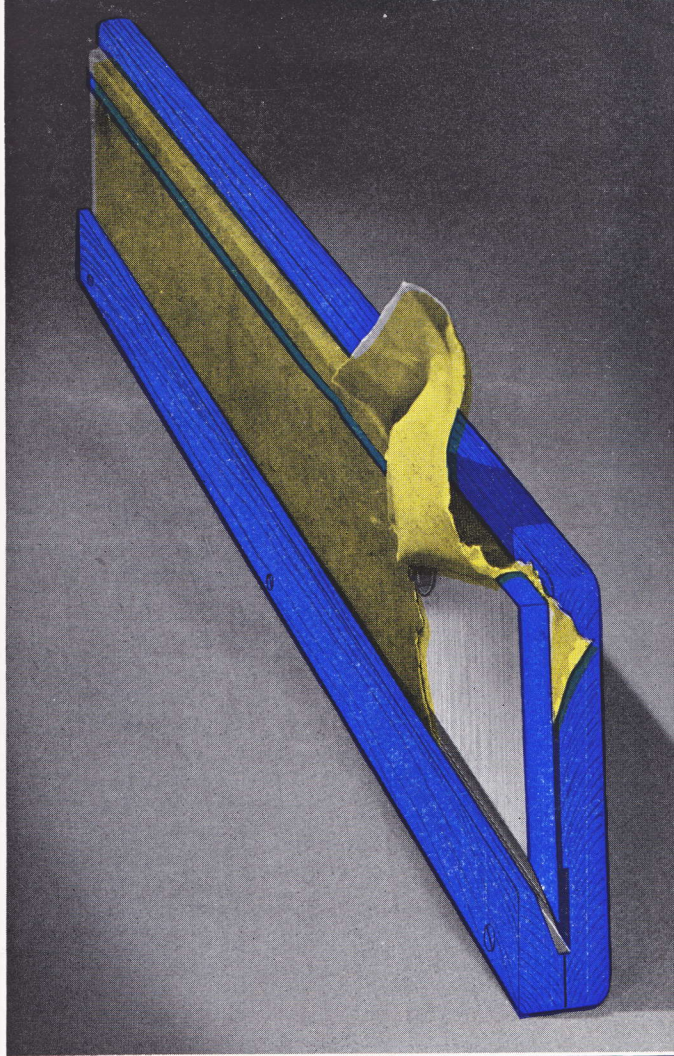
PAPER KNIVES

The best proof that Atkins SILVER STEEL AAA Paper Knives do as we claim is the fact that so many of the nation's largest and finest paper stock houses, paper mills and printers have used them for years. This continued endorsement of Atkins Paper Knives is based on accurate records which show them cutting for longer periods because Atkins Knives hold their edge longer. The resulting savings are

manifold; clean, true cuts mean a quality cutting job, finished work of consistently fine appearance; production savings, because knives spend less time in the grinding shop; lower tool costs, because while Atkins Knives cost no more, they deliver so much more cutting per blade.

Because paper knives represent a sizable investment—in initial cost as well as in the overhead of periodic grinding—it's good business to check into Atkins Paper Knives before your next purchase. Regardless of present performance, the alert buyer should check it against Atkins Paper Knives—to make certain that he's not passing up a good source of really big savings. Decide now to try Atkins on your cutting operations.

We make the very best knife that money can buy and can fit any cutter in use today.



ATKINS SILVER STEEL AAA MACHINE KNIVES...



WOOD TRIMMER



TIGHT BARREL
CHAMFER



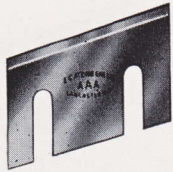
VENEER HOG



SLACK BARREL
CHAMFER



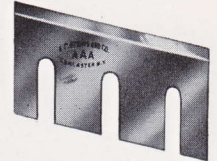
WOOD TRIMMER



ORAM STAVE JOINTER



INSIDE STAVE PLANER



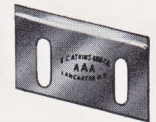
STRAIGHT STAVE JOINTER



INSIDE TIGHT
STAVE PLANER



LISTING OR STAVE JOINTER



HEADING JOINTER



OUTSIDE TIGHT
STAVE PLANER



STAVE



PLANER



SPOKE TENON



CARBON KNIFE



SPOKE
SHAPER



HUB
FINISHER



SPOKE



SPOKE FACER



UNION LEATHER SPLITTER



MOULDING



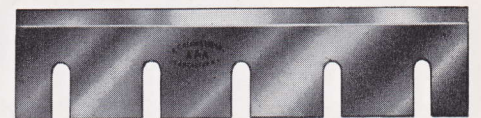
DOUBLE BEVEL LEATHER SPLITTER



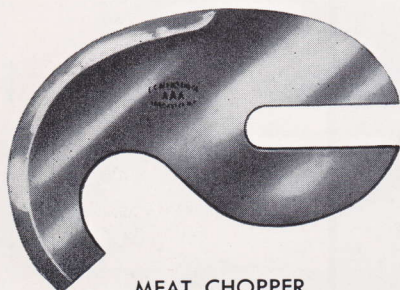
SINGLE BEVEL LEATHER SPLITTER



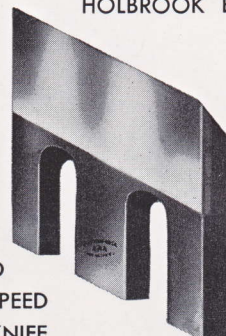
HOLBROOK BARKMILL



HUB ROUGHER



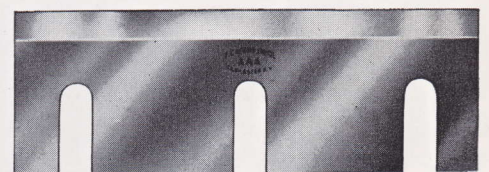
MEAT CHOPPER



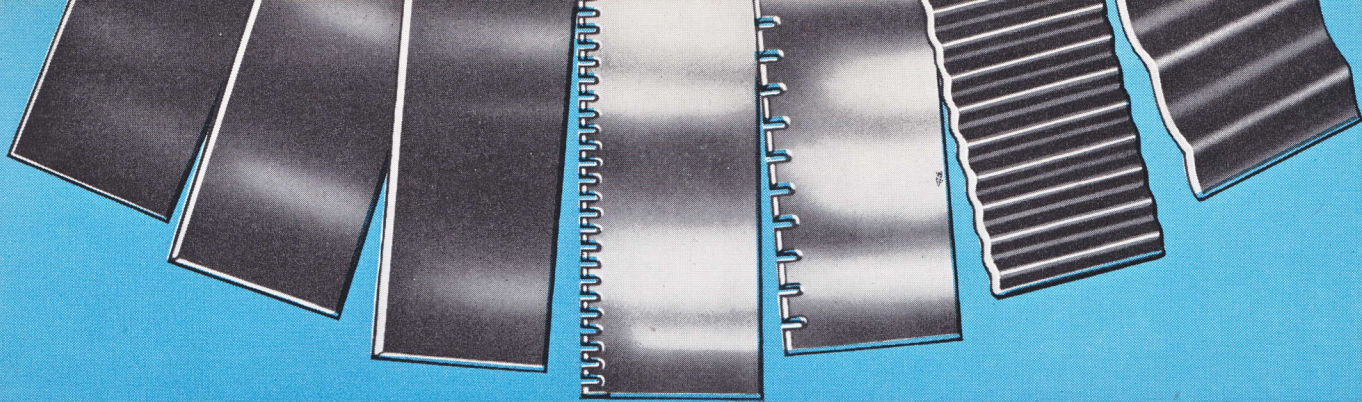
LAID
HIGH SPEED
STEEL KNIFE



OTT BARKMILL



EXTRACT WOOD CHIPPER



ATKINS CUTTING, PERFORATING AND CREASING RULE

MORE IMPRESSIONS... LESS REMAKES

Printers, box makers, display manufacturers and trade finishing plants who have once tried Atkins SILVER STEEL perforating, cutting and creasing rule are using it exclusively now. Some of the largest users of Atkins rule are securing from 250,000 to 350,000 impressions with a single die on extra heavy, tough stock such as 20-point box board. This alone is impressive, looking at it from the money-and-time-saving angle. Atkins SILVER STEEL Rule is of an exact thickness, height and temper throughout. Precision guaranteed.

A new rule is our Double-Double bevel cutting rule which has two

bevels on each side; on the 2 point the long bevel is .028 wide, and the short bevel is .012 wide. Any point may be double-double bevel and obtainable in either straw, blue or bright, and temper desired according to type of work.

Heights as given are standard, but any height can be made promptly. Cutting, waved and perforating rule is .937" high. Perforating rule is made 6, 8, 12 and 18 teeth to the inch. Creasing rule standard heights are .895", .900", .907", .910" and .918". Cut in 30" strips, packed 250 feet to a carton; weight 22 pounds.

NUMBER	COLOR	TEMPER	DIE NUMBER
0 Cutting	Straw	Ex. Ex. Hard	Straight Work only
1 Cutting	Straw	Ex. Hard	23
1 1/4 Cutting	Straw, Blue	High Hard	22
1 1/2 Cutting	Straw, Blue	Medium Hard	21
2 Cutting	Blue, Bright	Medium Slow	30A
2 1/2 Cutting	Straw, Blue	High Soft	2
3 Cutting	Blue, Bright	Medium Soft	1
3 1/2 Cutting	Straw, Blue	Low Soft	
4 Cutting	Blue, Bright	Dead Soft	
Perforating	Bright	Hard	Double
Creasing	Blue, Bright	Hard, Soft	Perforating
Wave Cutting	Blue	Hard	Creasing
			Edging



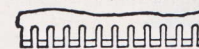
PERFORATING AND WAVE RULE



2 Pt. Double Bevel
6 teeth per inch



2 Pt. Double Bevel
8 teeth per inch



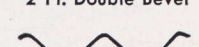
2 Pt. Double Bevel
12 teeth per inch



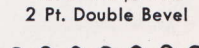
2 Pt. Double Bevel
18 teeth per inch



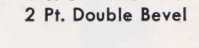
No. 1 Wave Rule
2 Pt. Double Bevel



No. 2 Wave Rule
2 Pt. Double Bevel



No. 3 Wave Rule
2 Pt. Double Bevel



No. 4 Wave Rule
2 Pt. Double Bevel

CUTTING RULE

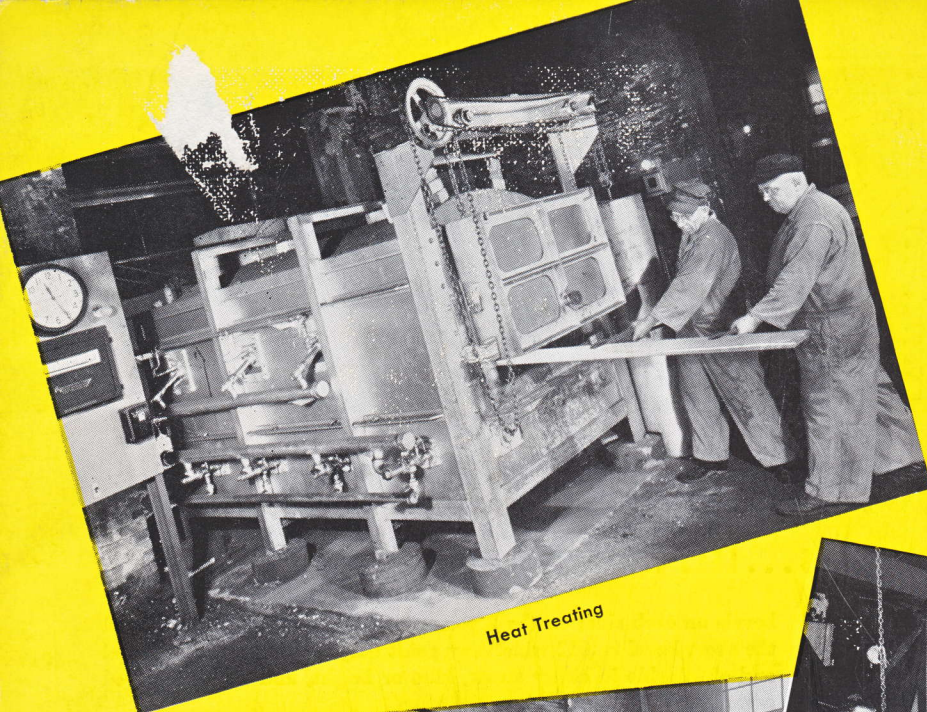
	1 Pt. Double Bevel
	1 Pt. Single Bevel
	1 1/2 Pt. Double Bevel
	1 1/2 Pt. Single Bevel
	2 Pt. Double Bevel
	2 Pt. Single Bevel
	3 Pt. Double Bevel
	3 Pt. Single Bevel
	4 Pt. Double Bevel
	4 Pt. Single Bevel
	6 Pt. Double Bevel
	6 Pt. Single Bevel
	8 Pt. Double Bevel
	8 Pt. Single Bevel
	10 Pt. Double Bevel
	10 Pt. Single Bevel

CREASING RULE

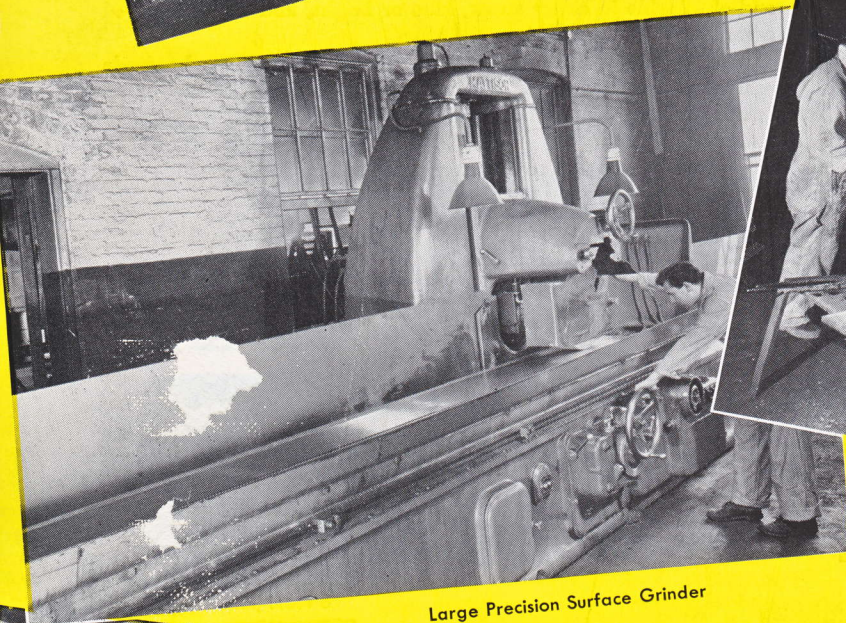
	1 Pt. Round Face
	1 Pt. Flat Face
	2 Pt. Round Face
	2 Pt. Flat Face
	3 Pt. Round Face
	3 Pt. Flat Face
	4 Pt. Round Face
	4 Pt. Flat Face
	6 Pt. Round Face
	6 Pt. Flat Face
	8 Pt. Round Face
	8 Pt. Flat Face
	10 Pt. Round Face
	10 Pt. Flat Face

Atkins Silver Steel Machine Knives

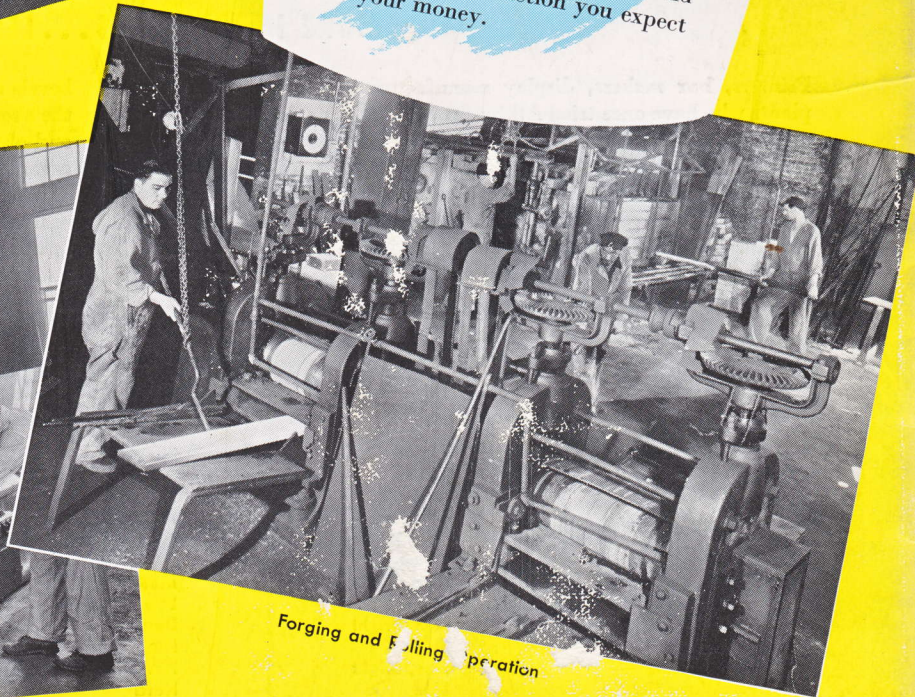
Nothing but the very finest equipment is used in the manufacturing of Atkins Knives. You are looking at action photographs of some of the most expensive and at the same time accurate production machinery ever made for knife manufacturing. That plus knowledge, skilled workmen and unceasing research gives you the kind of knives and production you expect from your money.



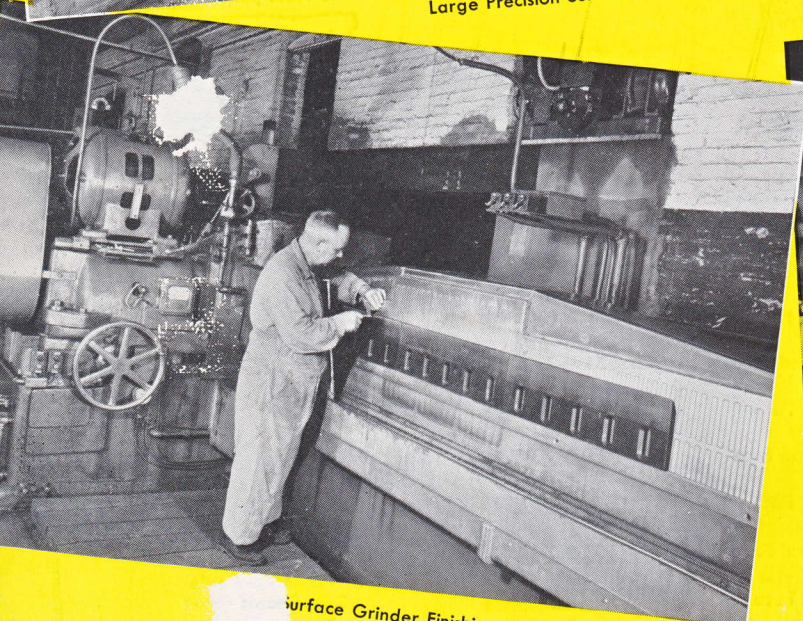
Heat Treating



Large Precision Surface Grinder



Forging and Rolling Operation



Surface Grinder Finishing
of Chipper Knives



Final Leveling on a
Veneer Knife

E. C. ATKINS AND COMPANY
INDIANAPOLIS, INDIANA